

SICK

Photoelectric proximity switch

Infrared light

WT23-2

01521S05

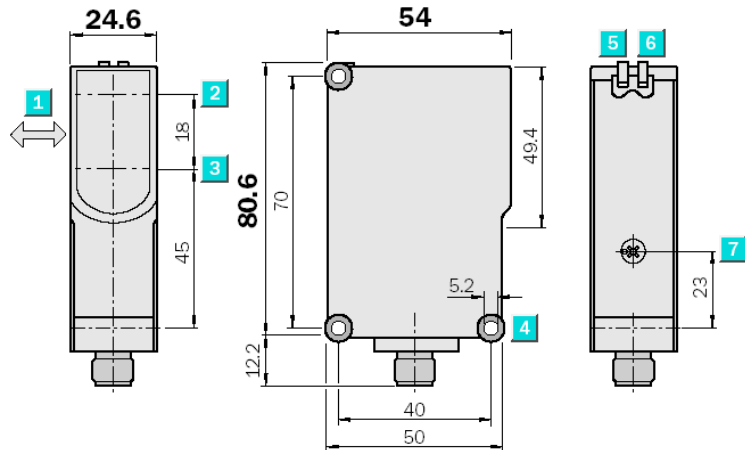
Scanning distance
50...1,300 mm

Photoelectric proximity switch

- Combination: supply voltage DC 24 V with semiconductor relay DC 24 V
- Reliable in industrial environments: secure against the effects of ambient light and not affected by adjacently mounted sensors

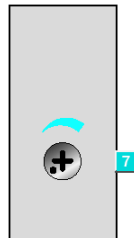


Dimensional drawing



Adjustments possible

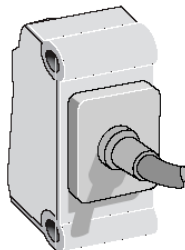
WT23-201521S05



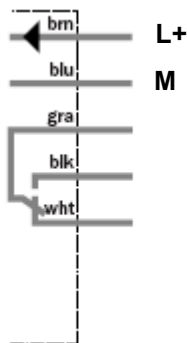
- 1 Standard direction of the material being scanned
- 2 Optical axis sender
- 3 Optical axis receiver
- 4 Mounting hole \varnothing 5,2 mm
- 5 LED indicator green; power on
- 6 LED indicator yellow; status of received light beam
- 7 Adjustment of scanning distance: Poti

Connection type

WT23-201521S05



5 x 0,25 mm²



Photoelectric proximity switch, WT23-201521S05, infrared light - DC

Technical Data		WT23-2	01521S05
Scanning distance, typ. max.	50...1,300 mm ¹⁾		
Operating distance	100...1,300 mm ¹⁾		
Adjustment of operating distance	Potentiometer		
Light source, light type	LED, Infrared light, 880 nm ²⁾		
Light spot diameter	Approx. 25 mm at 800 mm distance		
Supply voltage V _s	DC 10...30V ³⁾		
Ripple	≤ 5 V _{ss} ⁴⁾		
Power consumption	≤ 50 mA ⁵⁾		
Max. switching voltage	≤ 30 V DC/ 20 V AC		
Switching current max.	≤ 100 mA DC/ AC		
Max. switching power	≤ 3 W		
Response time ⁶⁾	< 3 ms		
Switching frequency ⁷⁾	200 Hz		
Connection type ⁸⁾	Cable, PVC, 2 m		
VDE protection class	<input type="checkbox"/> ⁹⁾		
Circuit protection	V _s connections reverse-polarity protected / semi-conductor relay short-circuit protected / Interference pulse suppression		
Enclosure rating	IP 65		
Ambient temperature operation	– 25 °C...+ 60 °C		
Ambient temperature storage	– 40 °C...+ 70 °C		
Weight	Approx. 100 g		
Housing material	ABS, PMMA		

¹⁾ Object with 90% remission (based on standard white to DIN 5033)
²⁾ Average service life 100,000 h at T_a = + 25 °C

³⁾ Limit values, operation in short-circuit protected network max. 8 A
⁴⁾ May not exceed or fall short of V_s tolerances

⁵⁾ Without load
⁶⁾ Signal transit time with resistive load
⁷⁾ With light/dark ratio 1:1

⁸⁾ Do not bend below 0°C
⁹⁾ Reference voltage DC 50 V

Scanning distance	Ordering information	
	Type	Order No.
	WT23-201521S05	1 044 315

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